

IN THE SPECIFICATION

Please replace the paragraph beginning on page 12, line 3, with the following amended paragraph:

The FIGUREFIG. 1 schematically shows an examination object in a gradient field with a radiation and detector unit.

Please replace the paragraph beginning on page 12, line 5, with the following amended paragraph:

FIG. 1 shows an illustrative test arrangement of an examination object in a gradient field with a radiation and detector unit. In this test arrangement, the examination object 1 is located in a gradient field 2 which around the field-free point 6 has an area 4 (the first part-area) the field strength of which is so low that the magnetization of magnetic particles located there is not saturated, said area 4 being shown in dashed line. The magnetic particles present in the examination object 1 are not shown. Outside the weak-field area 4 the magnetic particles are in a state of saturation (second part-area 8). The size of the part-area 4, which determines the spatial resolution of the device, depends on the one hand on the strength of the gradient magnetic field and on

the other hand on the size of the magnetic field required for saturation. A suitable magnetic field may be generated for example by way of a pair of Maxwell coils 10.